

What is claimed is:

1. A transmitting apparatus for transmitting data, comprising:

means for allowing update notification

5 information notifying a receiving side that data that is transmitted has been updated to contain information that identifies an updated data portion.

2. The transmitting apparatus as set forth in claim 1,

10 wherein the data has a directory tree structure, and

wherein the update notification information is left entry attribute value update information of the directory tree structure.

15 3. The transmitting apparatus as set forth in claim 2,

wherein the leaf entry attribute value update information contains information that identifies a class of a leaf entry of the directory tree structure.

20 4. The transmitting apparatus as set forth in claim 2,

wherein the leaf entry attribute value update information contains information that identifies an attribute of a leaf entry of the directory tree structure.

25 5. A receiving apparatus for receiving data, comprising:

means for receiving the data and update  
notification information notifying the receiving  
apparatus that the data has been updated and  
identifying a particular portion of an updated data  
portion corresponding to the received update  
notification information.

6. The receiving apparatus as set forth in claim  
5,

10 wherein the data has a directory tree  
structure, and

wherein the update notification information  
is left entry attribute value update information of the  
directory tree structure.

7. The receiving apparatus as set forth in claim  
5, further comprising:

means for extracting a leaf entry that is  
updated corresponding to information that identifies a  
class of a leaf entry of the directory tree structure,  
the class identifying information being contained in  
the leaf entry attribute value update information.

20 8. The receiving apparatus as set forth in claim  
5, further comprising:

means for extracting a leaf entry that is  
updated corresponding to information that identifies an  
attribute of a leaf entry of the directory tree  
structure, the class identifying information being  
contained in the leaf entry attribute value update

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information.

9. The receiving apparatus as set forth in claim 5, further comprising:

means for performing a process for extracting a leaf entry that is updated corresponding to a combination of information identifying a class of a leaf entry of the directory tree structure and information identifying an attribute thereof, the information identifying the class and the information identifying the attribute being contained in the leaf entry attribute value update information.

10. A transmitting - receiving system, comprising:

15 a transmitting unit for transmitting data; and

a receiving unit for receiving transmitted data,

20 wherein said transmitting unit transmits the data and update notification information notifying a receiving side that the data has been updated, the update notification information containing information identifying an updated data portion, and

25 wherein said receiving unit receives the data and the update notification information and identifies a particular portion of an updated data portion corresponding to the received update notification information.

11. The transmitting - receiving system as set forth in claim 10,

wherein a plurality of said transmitting units are disposed.

5 12. The transmitting - receiving system as set forth in claim 10,

wherein a plurality of said receiving units are disposed.

10 13. The transmitting - receiving system as set forth in claim 10, further comprising:

a broadcast network.

14. The transmitting - receiving system as set forth in claim 13,

wherein said transmitting unit transmits data to said broadcast network.

15 15. The transmitting - receiving system as set forth in claim 13,

wherein said receiving unit receives data from said broadcast network.

20 16. The transmitting - receiving system as set forth in claim 13,

wherein said broadcast network is a ground radio wave broadcast.

17. The transmitting - receiving system as set 25 forth in claim 13,

wherein said broadcast network is a satellite radio wave broadcast.

18. The transmitting - receiving system as set forth in claim 13,

wherein said broadcast network is a ground network.

5 19. The transmitting - receiving system as set forth in claim 18,

wherein said broadcast network is the Internet.

10 20. A transmitting method for transmitting data, comprising the step of:

allowing update notification information notifying a receiving side that data that is transmitted has been updated to contain information that identifies an updated data portion.

15 21. A receiving method for receiving data, comprising the step of:

receiving the data and update notification information notifying the receiving apparatus that the data has been updated and identifying a particular portion of an updated data portion corresponding to the received update notification information.